

Name: _____

Functions/Relations HW

Teacher: _____

Algebra Pd: _____

Day

Month

Year

Directions: Use your NEW knowledge and activate your PRIOR knowledge to complete this worksheet.

1. Write the definition of a function.

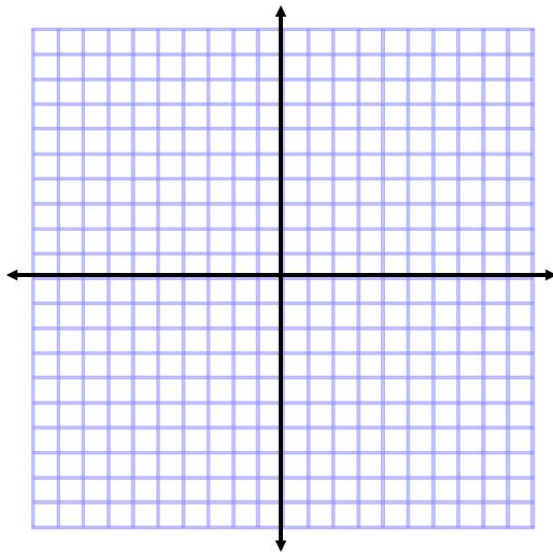
2. A function that can be expressed in the form $y = kx$ is: _____

- A. direct variation B. inverse variation C. a linear function
D. both a and c E. both b and c

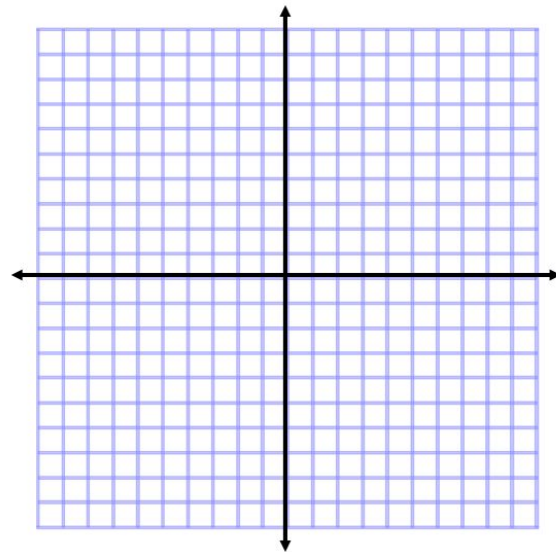
3. Sketch a graph that represents the following situation: the speed of a bike over time as someone rides from school to home in DC.

TURN PAPER OVER!

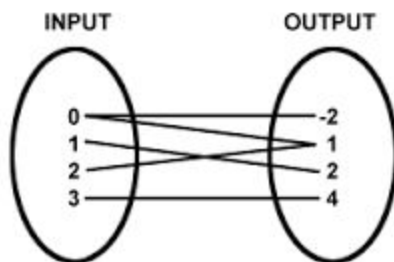
4. Sketch the graph of a relation that is NOT a function.



5. Sketch the graph of a relation that IS a function.



6. Is each relation a function? Explain using complete sentences and algebraic terms.



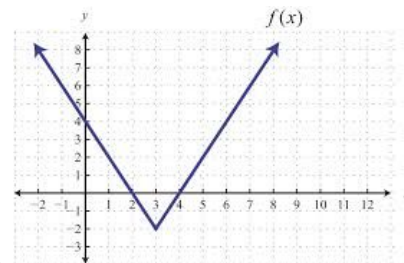
a.

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b.

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CHALLENGE: Given $f(x) = -x^2 - 8$, find $f(4)$.